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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,700	11/02/2001	David Carroll Challener	RPS9 2001 0400 US2	4416
75	90 01/15/2004		EXAMINER	
	Business Machines Corp	NGUYEN, CINDY		
Personal and Pri Dept. 9.CCA/Bl	inting Stystms Group dg. 002-2		ART UNIT	PAPER NUMBER
P.O. Box 12195			2171 .	
Research Triang	gle Park, NC 27709			

DATE MAILED: 01/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicat	ion No.	Applicant(s)	V			
Office Action Summary	10/016,7		CHALLENER, DAVID CARROLL				
omec Action Gammary	Examine		Art Unit				
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The MAILING DATE of this commo	inication appears on th	e cover sneet with the c	orrespondence ac	iaress			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this coldens of the period for reply specified above is less than thirty. - If NO period for reply is specified above, the maximum Failure to reply within the set or extended period for recommend and patent term adjustment. See 37 CFR 1.704(b).	NICATION. Ins of 37 CFR 1.136(a). In no elementication. (30) days, a reply within the state statutory period will apply and working the apply will, by statute, cause the apply after the mailing date of this content of the state of the st	vent, however, may a reply be tim tutory minimum of thirty (30) day vill expire SIX (6) MONTHS from plication to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).				
1) Responsive to communication(s) f	iled on <u>02 November 2</u>	<u>2001</u> .					
2a) ☐ This action is FINAL.	2b)⊠ This action is n	on-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) <u>1-26</u> is/are pending in the 4a) Of the above claim(s) is 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-13,15 and 18-26</u> is/are 7) □ Claim(s) <u>14,16 and 17</u> is/are object 8) □ Claim(s) are subject to rest	/are withdrawn from corejected.						
Application Papers							
9) The specification is objected to by	the Examiner.						
10) $igotimes$ The drawing(s) filed on <u>02 Novemb</u>	<u>er 2001</u> is/are: a)⊠ a	accepted or b)☐ object	ed to by the Exan	niner.			
Applicant may not request that any ob	•	-					
Replacement drawing sheet(s) includi	=	•		` '			
11) The oath or declaration is objected	to by the Examiner. N	ote the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a clair a) All b) Some * c) None of 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copie application from the Internat * See the attached detailed Office act 13) Acknowledgment is made of a claim since a specific reference was included a specific reference was included as a priority of the foreign in the internation of th	y documents have been to documents have been to documents have been to go of the priority documents for a list of the center of the first sentences anguage provisional and documents of the center of the first sentences of the provisional anguage provisional and documents of the first sentences of the provisional anguage prov	en received. en received in Application received in Application received in Application 17.2(a)). ified copies not received inder 35 U.S.C. § 119(e) e of the specification or application has been received.	on No d in this National d. e) (to a provisiona in an Application eived.	l application) Data Sheet.			
reference was included in the first se							
Attachment(s)		_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449)		4) Interview Summary 5) Notice of Informal P 6) Other:					

DETAILED ACTION

This is in response to application filed on 11/02/01 in which claims 1-26 are presented for examination.

1. Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Please submit the IDS "Trusted Computing Platform Alliance" that listed in the specification for further consideration.

2. Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 26 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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It is not clear to the Examiner, what is meant by "hashing the concatenation of the user authorization in the migratable storage tree with a fixed string". The claimed "hashing the concatenation of the user authorization in the migratable storage tree with a fixed string" has not been described such that it would enable one skilled in the art to make and/or use the same

3. Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-13, 15, 18-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Microsoft Corporation "Microsoft Windows 2000 Public key infrastructure" update 04 1999.

Regarding claims 1 and 18, Microsoft discloses: In a data processing system, a method comprising the steps of creating a migratable storage tree with a storage root key (page 3, paragraphs 3-6); and creating a non-migratable storage tree with the storage root key (page 3, paragraphs 3-6), wherein the migratable storage tree and the non-migratable storage tree are identically structured (page 3, paragraphs 3-6 and Certificate hierarchies describe on page 6).

Regarding claims 2 and 19, all the limitations of these claims have been noted in the rejection of claims 1 and 18. In addition, Microsoft discloses: wherein the migratable storage tree and the no migratable storage tree are created by a trusted computing module in accordance with Trusted Computing Platform Alliance (as Microsoft Window 2000 and page 6).

Regarding claims 3 and 20, all the limitations of these claims have been noted in the rejection of claims 1 and 18. In addition, Microsoft discloses: wherein the migratable storage tree comprises migratable keys and a user key, wherein the non-migratable storage tree comprises non-migratable keys and a user key (page 3, paragraphs 3-6 and Certificate hierarchies describe on page 6).

Regarding claims 4 and 22, all the limitations of these claims have been noted in the rejection of claims 1 and 18. In addition, Microsoft discloses: wherein the non-migratable storage tree will include non-migratable storage keys corresponding to each migratable storage key in the migratable storage tree (Generating keys describe on page 8).

Regarding claims 5 and 24, all the limitations of these claims have been noted in the rejection of claims 1 and 18. In addition, Microsoft discloses: wherein use authorization in the non-migratable storage tree will be identical to use authorization in the migratable storage tree (Smart card logon describe on page 12).

Regarding claim 6, all the limitations of this claim have been noted in the rejection of claim 1. In addition, Microsoft discloses: further comprising the steps of requesting a migratable storage key; and requesting a non-migratable storage key (Certificate enrollment describe on page 12).

Regarding claim 7, all the limitations of this claim have been noted in the rejection of claim 6. In addition, Microsoft discloses: wherein the step of requesting a migratable storage key will identify a parent key in the migratable storage tree, and wherein the step of requesting a non-migratable storage key will identify a parent key in the non-migratable storage tree that

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corresponds to the parent key in the migratable storage tree (Certificate enrollment describe on page 12).

Regarding claim 8, all the limitations of this claim have been noted in the rejection of claim 1. In addition, Microsoft discloses: further comprising the step of: when a key loading request is made for a migratable storage key, loading a key from the non-migratable storage tree instead of loading a corresponding key from the migratable storage tree (page 5, paragraph 3).

As per claim 9, all the limitations of this claim have been noted in the rejection of claim

1. It is therefore rejected as set forth above.

Regarding claim 10, all the limitations of this claim have been noted in the rejection of claim 9. In addition, Microsoft discloses: wherein the migratable storage key and the non-migratable storage key are associated in a database (Public-key functionality describe on page 2).

Regarding claim 11, all the limitations of this claim have been noted in the rejection of claim 9. In addition, Microsoft discloses: wherein the non-migratable key is a multi-prime key (share secrets key on page 15 and IP security section).

Regarding claim 12, all the limitations of this claim have been noted in the rejection of claim 9. In addition, Microsoft discloses: where the non-migratable key is an elliptic curve key (page 2, paragraph 2).

Regarding claim 13, all the limitations of this claim have been noted in the rejection of claim 9. In addition, Microsoft discloses: further comprising the steps of: creating a new migratable signing key with the given authentication data and a third parent key (page 2 Digital signatures section); storing the new migratable signing key with the given authentication data

and the third parent key (page 5, paragraph 3); storing the new migratable signing key with the given authentication data and a fourth parent key where the fourth parent key is a non-migratable key associated with the third parent key in a database (page 4, 2nd paragraph).

Regarding claim 15, all the limitations of this claim have been noted in the rejection of claim 9. In addition, Microsoft discloses: further comprising the steps of: creating a new data stored by means of the first parent key (page 2 Digital signatures section); storing the new data with the first parent key (page 5, paragraph 3); storing the new data with the second parent key where the second parent key is a non-migratable key associated with the third parent key in a database (page 4, 2nd paragraph).

Regarding claim 21, all the limitations of this claim have been noted in the rejection of claim 18 above. In addition, Microsoft discloses: wherein the migratable storage tree comprises migratable keys and encrypted user data wherein the non-migratable storage tree comprises non-migratable keys and encrypted user data (page 2, Secret key agreement via public key section).

Regarding claim 23, all the limitations of this claim have been noted in the rejection of claim 18 above. In addition, Microsoft discloses: wherein the non migratable storage tree will include non-migratable storage keys corresponding to a subset of the migratable storage keys in the migratable storage tree (page 16, 1st paragraph).

Regarding claim 25, all the limitations of this claim have been noted in the rejection of claim 18 above. In addition, Microsoft discloses: wherein use authorization in the non-migratable storage tree can be deduced from user authorization in the migratable storage tree with additional data (page 5, Certificate authorities section).

Regarding claim 26, all the limitations of this claim have been noted in the rejection of claim 25 above. In addition, Microsoft discloses: wherein the use authorization in the non-migratable storage tree is obtained by hashing the concatenation of the user authorization in the migratable storage tree with a fixed string (page 2, digital signatures section).

5. Allowable Subject Matter

Claims 14, 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record and that encountered while searching for the claimed invention fails to anticipate and/or suggest: the method as recited in claim 13 and 15, further comprising the steps of loading a copy of the new migratable signing key stored in the key blob created with the non-migratable parent key as recited in claims 14 and 16.

Regarding claim 17 depends from claim 14 therefore objected.

6. Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Public key infrastructure, Streetman et al., ATI IPT Special report 00-06, April 2000.

Lam (U.S 5564037). Real time data migration system and method employing sparse files.

Ginter et al. (U.S 6658568). Trusted infrastructure support system, method and techniques for secure electronic commerce transaction and rights management.

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Brown et al. (U.S 6618806). System and method for authenticating users in a computer

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network.

7. Contact Information

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Cindy Nguyen whose telephone number is 703-305-4698. The examiner can

normally be reached on M-F: 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet

Metjahic can be reached on 703-308-1436. The fax phone numbers for the organization where this

application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9306

for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is 703-305-3900.

W

Cindy Nguyen

January 11, 2004

WAYNE AMSBURY